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TI - Biocidal thermal insulation polystyrene foams containing sodium borates and their manufacture

IN - Tobin, Michael W.

PA - AFM Corporation, USA

SO - Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT - Patent

LA - Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PN - JP2001200088	A2	20010724	JP 2000-9712	20000119
JP3308956B2	B2	20020729		
JP2003003003	A2	20030108	JP 2002-98457	20000119
PRAI- JP 2000-9712	A3	20000119		

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IC - ICM C08J009-232

ICS B29C044-00; C08K003-38; C08L025-00; E04B001-72; E04B001-80; B29K025-00; B29K105-04; B29L031-10

CC, - 5-4 (Agrochemical Bioregulators)
Section cross-reference(s): 38, 58

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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001200088	ICM	C08J009-232
	ICS	B29C044-00; C08K003-38; C08L025-00; E04B001-72; E04B001-80; B29K025-00; B29K105-04; B29L031-10

AB - The polystyrene foams, useful as construction materials, are manufd. by (a) prepg. a warm aq. soln. of Na borates, (b) introducing polystyrene beads into a container and spraying the fluidizing beads with the warm soln. to induce preliminary foaming, (c)

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feeding the preliminarily foamed polystyrene beads to the gas-permeable container and removing water upon air-drying and/or heating to promote and complete preliminary foaming, (d) pooling the polystyrene foams having minute roughness on which Na borates are fixed, (e) feeding the preliminarily foamed polystyrene to a mold and heating with steam, and then (f) solidifying the molded foam block upon cooling. The thermal insulation foams may be laminated with a metal plate, a plastic plate, or a wooden plate. Manuf. of polystyrene foams contg. Na2B8O13 and termiticidal effect of the foams were shown.

ST - biocidal polystyrene thermal insulation foam sodium borate

IT - Biocides

Termiticides

Thermal insulation foams

(manuf. of biocidal polystyrene thermal insulation foams contg. Na borates)

IT - Plastic foams

RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)

(manuf. of biocidal polystyrene thermal insulation foams contg. Na borates)

IT - 1330-43-4, Sodium tetraborate (Na2B4O7) 7775-19-1, Sodium metaborate (NaBO2) 12007-42-0, Boron sodium oxide (B3NaO5) 12007-92-0, Sodium pentaborate (NaB5O8) 12008-41-2, Sodium octaborate (Na2B8O13) 32446-62-1, Sodium borate (Na4B2O5)

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)

(manuf. of biocidal polystyrene thermal insulation foams contg. Na borates)

IT - 9003-53-6, Polystyrene

RL: BUU (Biological use, unclassified); DEV (Device component use); BIOL (Biological study); USES (Uses)

(manuf. of biocidal polystyrene thermal insulation foams contg. Na borates)